

PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

WEBBER, David, Brian
Davies Collison Cave
1 Little Collins Street
Melbourne, VIC 3000
AUSTRALIE

TUESDAY, 23 MAR 1999

Date of mailing (day/month/year) 11 March 1999 (11.03.99)		
Applicant's or agent's file reference 2092193/DBW		
International application No. PCT/AU98/00710	International filing date (day/month/year) 02 September 1998 (02.09.98)	Priority date (day/month/year) 02 September 1997 (02.09.97)
Applicant NEC AUSTRALIA PTY. LTD. et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

AU, BR, CN, EP, IL, JP, KP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AL, AM, AP, AT, AZ, BA, BB, BG, BY, CA, CH, CU, CZ, DE, DK, EA, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IS, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, OA, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 11 March 1999 (11.03.99) under No. WO 99/12353

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
--	---

INTERNATIONAL SEARCH REPORT**Information on patent family members**

International application No. PCT/AU 98/00710
--

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
US	5410343	AU	24894/92	EP	605454	NZ	244083
		US	5247347	WO	9306692	US	5528281
		US	5625404	US	5712906	US	5790174
		US	5802283	AU	66999/94	WO	9423537
WO	93/06692	AU	24894/92	EP	605454	NZ	244083
		US	5247347	US	5410343	US	5528281
		US	5625404	US	5712906	US	5790174
		US	5802283	AU	66999/94	WO	9423537
EP	425145	JP	3265257	US	5042062		
EP	589620	CA	2106745	JP	6205105	JP	6205105
		US	5329572				
US	5625404	AU	24894/92	EP	605454	NZ	244083
		US	5247347	WO	9306692	US	5410343
		US	5528281	US	5712906	US	5790174
		US	5802283	AU	66999/94	WO	9423537
US	5528281	AU	24894/92	EP	605454	NZ	244083
		US	5247347	WO	9306692	US	5410343
		US	5625404	US	5712906	US	5790174
		US	5802283	AU	66999/94	WO	9423537

END OF ANNEX

Patent Document Cited in Search Report				Patent Family Member			
WO	96/21986	AU	39534/95	CA	2208987	GB	2296620
		GB	2308526	US	5751338		
EP	513763	CA	2068387	EP	715470	JP	4336830

END OF ANNEX

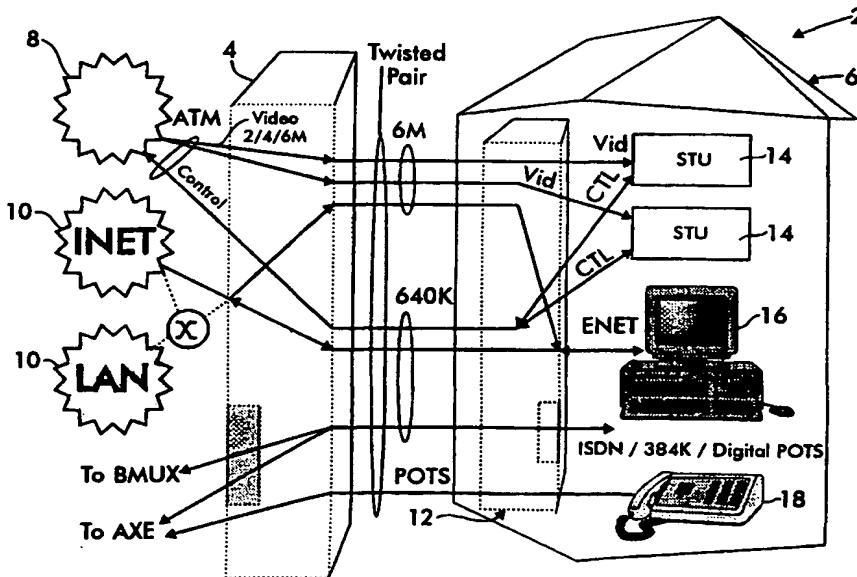


CK

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04N 7/173, H04M 11/00		A1	(11) International Publication Number: WO 99/12353
			(43) International Publication Date: 11 March 1999 (11.03.99)
(21) International Application Number: PCT/AU98/00710	(22) International Filing Date: 2 September 1998 (02.09.98)	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(30) Priority Data: PO 8942 2 September 1997 (02.09.97) AU			
(71) Applicant (for all designated States except US): NEC AUSTRALIA PTY. LTD. [AU/AU]; 635 Ferntree Gully Road, Glen Waverley, VIC 3150 (AU).			
(72) Inventors; and			
(75) Inventors/Applicants (for US only): SIM, Puay, Kia [SG/AU]; 38 Wondalea Crescent, Wantirna, VIC 3152 (AU); DEL PAPA, John, Domenick [AU/AU]; 31 Heritage Way, Lysterfield, VIC 3156 (AU); STUMPF, Erich [AU/AU]; 4 Dobell Drive, Eltham North, VIC 3095 (AU); FIDDES, Leigh, Francis [AU/AU]; 25 Buena Vista Drive, Montmorency, VIC 3091 (AU); BURR, Peter, Andrew [AU/AU]; 66 Landau Drive, Warranwood, VIC 3134 (AU); GONTMAKHER, Alexander [AU/AU]; 4 Simpson Drive, Mount Evelyn, VIC 3149 (AU); DIAS, Dominic, John [GB/AU]; 45 MacKellar Avenue, Mulgrave, VIC 3170 (AU).			
(74) Agents: WEBBER, David, Brian et al.; Davies Collison Cave, 1 Little Collins Street, Melbourne, VIC 3000 (AU).			

(54) Title: A DISTRIBUTION SYSTEM



(57) Abstract

A distribution switch for a local exchange, including an access unit for switching video channels transmitted to subscribers in response to channel requests received from subscribers, and a control unit for controlling switching of the channels by the access unit in accordance with stored conditional access data. The conditional access data includes contact description data for the video channels and entitlement data for the subscribers, which is compared by the control unit for the channel requests. The switch may include a DVB interface unit for receiving DVB signals, extracting the video channels from the DVB signals, and multiplexing the video channels onto a data path for the access unit. The DVB interface unit can extract the conditional access data from the DVB signals.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

PATENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY EXAMINATION REPORT
(PCT Article 36 and Rule 70)

REC'D 13 JUL 1999
WIPO PCT

Applicant's or agent's file reference 2092193/DBW/VT	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International application No. PCT/AU 98/00710	International filing date (day/month/year) 2 September 1998	Priority Date (day/month/year) 2 September 1997
International Patent Classification (IPC) or national classification and IPC Int. Cl. 6 H04N 7/173 ; H04M 11/00		
Applicant NEC AUSTRALIA PTY Ltd. (et al)		

1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.																
2.	This REPORT consists of a total of 3 sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheet(s).																
3.	This report contains indications relating to the following items: <table> <tr> <td>I</td> <td><input checked="" type="checkbox"/> Basis of the report</td> </tr> <tr> <td>II</td> <td><input type="checkbox"/> Priority</td> </tr> <tr> <td>III</td> <td><input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td>IV</td> <td><input type="checkbox"/> Lack of unity of invention</td> </tr> <tr> <td>V</td> <td><input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td>VI</td> <td><input type="checkbox"/> Certain documents cited</td> </tr> <tr> <td>VII</td> <td><input type="checkbox"/> Certain defects in the international application</td> </tr> <tr> <td>VIII</td> <td><input type="checkbox"/> Certain observations on the international application</td> </tr> </table>	I	<input checked="" type="checkbox"/> Basis of the report	II	<input type="checkbox"/> Priority	III	<input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	IV	<input type="checkbox"/> Lack of unity of invention	V	<input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	VI	<input type="checkbox"/> Certain documents cited	VII	<input type="checkbox"/> Certain defects in the international application	VIII	<input type="checkbox"/> Certain observations on the international application
I	<input checked="" type="checkbox"/> Basis of the report																
II	<input type="checkbox"/> Priority																
III	<input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability																
IV	<input type="checkbox"/> Lack of unity of invention																
V	<input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																
VI	<input type="checkbox"/> Certain documents cited																
VII	<input type="checkbox"/> Certain defects in the international application																
VIII	<input type="checkbox"/> Certain observations on the international application																

Date of submission of the demand 1 April 1999	Date of completion of the report 06 July 1999
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No. (02) 6285 3929	Authorized Officer <i>J. J. Samuel</i> SERINEL SAMUEL Telephone No. (02) 6283 2382

I. Basis of the report

1. With regard to the elements of the international application:*

the international application as originally filed.

the description, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of .

the claims, pages , as originally filed,
 pages , as amended (together with any statement) under Article 19,
 pages , filed with the demand,
 pages , filed with the letter of .

the drawings, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of .

the sequence listing part of the description:
 pages , as originally filed
 pages , filed with the demand
 pages , filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

the language of publication of the international application (under Rule 48.3(b)).

the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

4. The amendments have resulted in the cancellation of:

the description, pages

the claims, Nos.

the drawings, sheets/fig

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims 2-18, 20-28 Claims 1,19	YES NO
Inventive step (IS)	Claims nil Claims 1-28	YES NO
Industrial applicability (IA)	Claims 1-28 Claims nil	YES NO

2. Citations and explanations (Rule 70.7)**NOVELTY (N) Claims 1,19**

-US 5,410,343
-WO 93/06692
-US 5,625,404
-US 5,528,281
-EP 0,425,145
-EP 0,589,620
-WO 95/34169

Each of these citations explicitly discloses all of the features of these claims.

INVENTIVE STEP (IS) Claims 1-28

Claims 1,19 as above

Claims 2-18, 20-28

These claims add features which would either be obvious to a person skilled in the art or merely amount to adding common general knowledge.

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 12/64, H04N 7/10		A3	(11) International Publication Number: WO 96/21986
			(43) International Publication Date: 18 July 1996 (18.07.96)
(21) International Application Number: PCT/US95/13016		(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, MW, SD, SZ, UG), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 4 October 1995 (04.10.95)		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(30) Priority Data: 367,976 30 December 1994 (30.12.94) US		(88) Date of publication of the international search report: 24 October 1996 (24.10.96)	
(60) Parent Application or Grant (63) Related by Continuation US 367,976 (CON) Filed on 30 December 1994 (30.12.94)			
(71) Applicant (for all designated States except US): VISIONARY CORPORATE TECHNOLOGIES, INC. [US/US]; Unit 2B, 264 Village Boulevard, Incline Village, NV 89452 (US).			
(72) Inventor; and (75) Inventor/Applicant (for US only): LUDWIG, Lester, Frank, Jr. [US/US]; 548 Trinidad Lane, Foster City, CA 94404 (US).			
(74) Agents: ARTZ, John, A. et al.; Brooks & Kushman, 22nd floor, 1000 Town Center, Southfield, MI 48075 (US).			
(54) Title: MULTIMEDIA COMMUNICATIONS VIA PUBLIC TELEPHONE NETWORKS			
<p>(57) Abstract</p> <p>Methods and systems are disclosed for providing multimedia telecommunication services to multimedia workstations (100, 102). The multimedia workstations (100, 102) communicate with a multimedia central office (112) which includes a digital switch complex (150) coupled to a public digital telephone network (106), and at least one twisted pair transceiver (152) coupled to at least one twisted pair link in a telephone loop plant. The multimedia central office (112) further includes at least one switch complex (154) operatively associated with the digital switch complex and the at least one twisted pair transceiver. The multimedia central office is capable of transceiving signals with multimedia workstations interfaced to the public digital telephone network, and with multimedia workstations interfaced to the at least one twisted pair link in the telephone loop plant. The signals which are transceived include audio signals, video signals, and digital data signals used in providing the multimedia telecommunication services.</p>			

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kingdom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgyzstan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	KZ	Kazakhstan	SG	Singapore
CH	Switzerland	LI	Liechtenstein	SI	Slovenia
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovakia
CM	Cameroon	LR	Liberia	SN	Senegal
CN	China	LT	Lithuania	SZ	Swaziland
CS	Czechoslovakia	LU	Luxembourg	TD	Chad
CZ	Czech Republic	LV	Latvia	TG	Togo
DE	Germany	MC	Monaco	TJ	Tajikistan
DK	Denmark	MD	Republic of Moldova	TT	Trinidad and Tobago
EE	Estonia	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	UG	Uganda
FI	Finland	MN	Mongolia	US	United States of America
FR	France	MR	Mauritania	UZ	Uzbekistan
GA	Gabon			VN	Viet Nam

INTERNATIONAL SEARCH REPORT

Internat'l Application No
PCT/US 95/13016

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04L12/64 H04N7/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 H04L H04M H04Q H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	GB,A,2 282 506 (VICOR INC) 5 April 1995 see page 3, line 21 - page 5, line 10 -/- A TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS OF JAPAN, vol. E74, no. 9, September 1991, TOKYO JP, pages 2696-2702, XP000271990 HIROSHI SHIMIZU ET AL: "IVDLAN STANDARDIZATION AND DEVELOPMENT" -/-	1-4, 22-25
		1.22

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *A* document member of the same patent family

3

Date of the actual completion of the international search

30 August 1996

Date of mailing of the international search report

11.09.96

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Vandevenne, M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 95/13016

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PROC. OF THE 1ST INTERNATIONAL WORKSHOP ON COMMUNITY NETWORKING- INTEGRATED MULTIMEDIA SERVICES TO THE HOME- 13 - 14 July 1994, SAN FRANCISCO(US), pages 203-209, XP000566578 S.V.AHAMED ET AL: "HDSL AND ADSL CAPACITY OF THE OUTSIDE LOOP PLANT FOR MULTIMEDIA SERVICES TO THE HOME" ---	1.22
A	PATENT ABSTRACTS OF JAPAN vol. 18, no. 47 (E-1496), 25 January 1994 & JP,A,05 268585 (MATSUSHITA), 15 October 1993, see abstract ---	43,44
A	EP,A,0 352 210 (ETAT FRANCAIS) 24 January 1990 see column 5, line 19 - line 30 see column 6, line 19 - line 24 see column 8, line 29 - line 45 ---	43,44
A	EP,A,0 617 560 (A.T.T.) 28 September 1994 see abstract ---	43,44
A	EP,A,0 244 260 (SHARP) 4 November 1987 see abstract -----	43,44

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US95/13016

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-42: System for providing a plurality of multimedia telecommunication services and method therefor.

2. Claims 43-44: System (and method) for communicating an analog video signal and an audio signal over twisted pair links.

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern: al Application No
PCT/US 95/13016

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB-A-2282506	05-04-95	AU-B- 7198894 AU-B- 7963894 EP-A- 0721725 EP-A- 0721726 WO-A- 9510157 WO-A- 9510158	01-05-95 01-05-95 17-07-96 17-07-96 13-04-95 13-04-95
EP-A-352210	24-01-90	FR-A- 2634608 DE-D- 68918368 DE-T- 68918368 US-A- 5130793	26-01-90 27-10-94 11-05-95 14-10-92
EP-A-617560	28-09-94	US-A- 5389900 AU-B- 5927494	14-02-95 29-09-94
EP-A-244260	04-11-87	JP-A- 62257287 JP-A- 62257293 DE-A- 3786946 DE-T- 3786946 US-A- 4955048	09-11-87 09-11-87 16-09-93 27-01-94 04-09-90

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU 98/00710

A. CLASSIFICATION OF SUBJECT MATTER

Int Cl⁶: H04N 7/173; H04M 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC H04N; H04M; H04Q 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
AU: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT: DISTRIBUT: OR SWITCH: AND VIDEO

JAPIO: DISTRIBUT: OR SWITCH: AND VIDEO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5410343 A (CODDINGTON et al) 25 April 1995 See column 3, line 45 - column 4, line 23	1, 19
X	EP 0431816 A1 (CABLETIME LIMITED) 12 June 1991 See column 1, lines 29-40	1, 19
X	WO 93/06692 (BELL ATLANTIC NETWORK SERVICES) 1 April 1993 See page 8, line 10 - page 13, line 12	1, 19

 Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 September 1998

Date of mailing of the international search report

14 OCT 1998

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE

PO BOX 200

WODEN ACT 2606

AUSTRALIA

Facsimile No.: (02) 6285 3929

Authorized officer

SERINEL SAMUEL

Telephone No.: (02) 6283 2382